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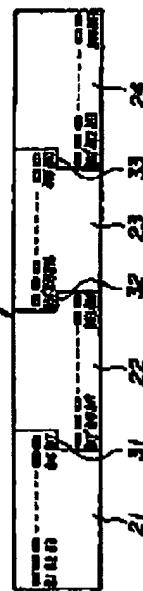
APPLICATION DATE : 18-10-83
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APPLICANT : RICOH CO LTD;

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TITLE : LINE IMAGE SENSOR



ABSTRACT : PURPOSE: To attain the replacement of a defective small substrate and to improve the product yield of image sensors by dividing a substrate equally into plural small substrates and distributing plural element blocks in a row on each small substrate with element blocks overlapped each other at junction parts when those small substrates are joined together.

CONSTITUTION: A substrate 1 arranged with unmagnification photodetectors equivalent to a line is divided equally into small substrates 21-24. The junction parts of these small substrates gear alternately each other through level difference parts 31-33 to obtain a long substrate 1. Element blocks B1-B17 are arrayed in a row on the substrate 21, and each element block contains 32 elements arrayed in a row. These element trains are set zigzag for each small substrate when substrates 21-24 are put together. Thus element blocks B17 and B17', B34 and B34' and B51 and B51' are put on each other at each junction part of the substrates 21-24. Thus the overlap reading is made possible for picture information.

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